

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
Summary Memorandum

Site ID: WA D009069717
County: Spokane
Priority Assessment: MEDIUM
Backlog Red. Cat.:
Date/Revised: 08/16/84

Name and Location:

Spokane Steel Foundry
N. Sullivan Rd. (Spokane Ind. Park)
Spokane, WA 99216

Contact: Robert Tenold
Telephone: (509) 928-1023
Site Status: Active Inactive Unknown

Site Description/TSD Activities:

Steel foundry emissions (baghouse dusts) have been disposed into an abandoned gravel pit which overlies Spokane's sole source aquifer. Site has been accepting wastes since 1968.

Waste Types/Quantities/Characteristics:

Baghouse emissions contain heavy metals including chromium, cadmium, selenium, and lead. Baghouse dust sample trivalent chromium concentration reported at 1900 mg/kg. Total quantities of baghouse emissions dumped on approx. ten acre site is around 200 tons.

Physical/Social Environment:

Landfill overlies sole source aquifer for Spokane; depth to groundwater is from 74-106ft. No surface waters on site; slope of facility is less than 1%. Population served by groundwater in 3-mile radius is greater than 10,000.

Pollutant Mobilization/Pathways/Risk:

Concern that metals in waste piles could leach into groundwater. Trentwood and Irwin water districts within 3 miles. Little potential for surface water contamination due to lack of water and slope characteristics.

Priority Assessment/Backlog Reduction Category:

MEDIUM: Site has potential for groundwater contamination if metals can leach to aquifer. Population served by aquifer is greater than 10,000.

Followup Recommendations:

Monitor groundwater from surrounding domestic and industrial wells for heavy metal content. Soil sampling should be conducted. Laboratory simulation of baghouse dust leaching properties utilizing appropriate pH ranges for local rainfall. Removal of baghouse materials (contaminated soils) from gravel pit for disposal in hazardous waste dump.

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
Part 1 - Site Information and Assessment

I. IDENTIFICATION

01 State	02 Site Number
WA	D009069717

II. SITE NAME AND LOCATION

01 Site Name (legal, common, or descriptive name of site)		02 Street, Route No., or Specific Location Identifier					
Spokane Steel Foundry		N Sullivan Rd Spok. Indus. Park					
03 City	04 State	05 Zip Code	06 County		07 County Code	08 Cong Dist	
Spokane	WA	99216	Spokane		063	05	
09 Coordinates		Section/Township/Range					
Latitude	Longitude	S1/2, Sec 1, T25N, R44E, WM					
474135.0	1171054.0						

10 Directions to Site (starting from nearest public road)

Travel N from Sullivan St., exit off I-90 approx. 1.25 mi to Spokane Industrial Park, Building 1

III. RESPONSIBLE PARTIES

01 Owner (if known)		02 Street (business, mailing, residential)					
Spokane Industries, Inc.		P.O. Box 3305					
03 City	04 State	05 Zip Code	06 Telephone Number				
Spokane	WA	99220	(509)9280750				
07 Operator (if known and different from owner)		08 Street (business, mailing, residential)					
Robert Tenold, Gen. Mgr.		P.O. Box 3305					
09 City	10 State	11 Zip Code	12 Telephone Number				
Spokane	WA	99220	(509)9281023				
13 Type of Ownership (check one)							
<input checked="" type="checkbox"/> A. Private		<input type="checkbox"/> B. Federal:		<input type="checkbox"/> C. State		<input type="checkbox"/> D. County <input type="checkbox"/> E. Municipal	
<input type="checkbox"/> F. Other:		<input type="checkbox"/> G. Unknown					

14 Owner/Operator Notification on File (check all that apply)

A. RCRA 3001, Date Rec'd: / / B. Uncontrolled Waste Site (CERCLA 103c), Date Rec'd: / / C. None

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 On Site Inspection		By (check all that apply):					
<input checked="" type="checkbox"/> Yes, Date: 83 / -- / 84		<input type="checkbox"/> A. EPA		<input type="checkbox"/> B. EPA Contractor		<input checked="" type="checkbox"/> C. State <input type="checkbox"/> D. Other Contractor	
<input type="checkbox"/> No		<input type="checkbox"/> E. Local Health Official		<input type="checkbox"/> F. Other:			
		Contractors Name(s):					
02 Site Status (check one)		03 Years of Operation					
<input checked="" type="checkbox"/> A. Active <input type="checkbox"/> B. Inactive <input type="checkbox"/> C. Unknown		beginning year		ending year		<input type="checkbox"/> Unknown	
		1981		Pres			

04 Description of Substances Possibly Present, Known, or Alleged

WDOE fish bioassay results show that Baghouse No. 2 and 4 produce dangerous waste. Dust from baghouse emissions contain heavy metals. Baghouse dust dumped in open gravel pit.

05 Description of Potential Hazard to Environment and/or Population

Dusts have been disposed into an abandoned gravel pit which overlies the Spokane aquifer, a sole source aquifer.

V. PRIORITY ASSESSMENT

01 Priority for Inspection (check one; if high or medium is checked, complete Part 2 and Part 3)

A. High (inspection required promptly) B. Medium (inspection required) C. Low (inspect on time available basis) D. None (no further action needed complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 Contact		02 Of (agency/organization)		03 Telephone Number	
Ned Therien		WDOE		(206)4596352	
04 Person Responsible for Assessment	05 Agency	06 Organization	07 Telephone Number	08 Date	
Patricia O'Flaherty	N/A	JRB Associates	(206)477899	08 / 08 / 84	

POTENTIAL HAZARDOUS WASTE SITE
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Part 3 - Description of Hazardous Conditions & Incidents

I. IDENTIFICATION

01 State	02 Site Number
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II. HAZARDOUS CONDITIONS AND INCIDENTS

- 01 () A. Groundwater Contamination 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: >10,000 04 Narrative Description
 Gravel pit which receives foundry baghouse emission wastes overlies Spokane Valley Rathdrum Prairie Aquifer, a sole source aquifer for Spokane. Depth to aquifer is 74-106ft.
- 01 () B. Surface Water Contamination 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: Unknown 04 Narrative Description
 Nearest surface water is Spokane River 0.75 mile South. One year, 24 hour rainfall is 1.67 inches and average slope to the river is LT 2%. Unlikely surface water contamination.
- 01 () C. Contamination of Air 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: Unknown 04 Narrative Description
 None reported.
- 01 () D. Fire/Explosive Conditions 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: Unknown 04 Narrative Description
 None reported; no documented or certified threat.
- 01 () E. Direct Contact 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: Unknown 04 Narrative Description
 None reported. Gate to facility is only a wire across entrance road. Access into pit is not monitored. Potential for direct contact does exist.
- 01 () F. Contamination of Soil 02 () Observed (Date:) () Potential () Alleged
 03 Area Potentially Affected (acres): 10 04 Narrative Description
 Gravel pit receives baghouse emission dusts which are fine powders and can potentially contaminate soils at site.
- 01 () G. Drinking Water Contamination 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: >10,000 04 Narrative Description
 Gravel pit receiving wastes is unlined and overlies the sole source aquifer for the Spokane area. Two water districts have wells within a three mile radius. Movement of groundwater unknown.
- 01 () H. Worker Exposure/Injury 02 () Observed (Date:) () Potential () Alleged
 03 Workers Potentially Affected: 0 04 Narrative Description
 Gravel pit is a waste pit with no workers on site.
- 01 () I. Population Exposure/Injury 02 () Observed (Date:) () Potential () Alleged
 03 Population Potentially Affected: Unknown 04 Narrative Description
 The greatest potential for population exposure is from direct contact with the site as it is easily accessible. Lack of surface waters on site and high soil permeability reduce potential for population exposure.

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II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 () J. Damage to Flora 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description
None reported.

01 () K. Damage to Fauna 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description (include name[s] of species)
None reported. WDOE performed bioassays on four samples of baghouse dust and No. 2 and 4 were toxic to fish (rainbow trout).

01 () L. Contamination of Food Chain 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description
None reported.

01 () M. Unstable Containment of Wastes 02 () Observed (Date:) () Potential () Alleged
(spills/runoff/standing liquids/leaking drums)

03 Population Potentially Affected: >10,000 04 Narrative Description
Gravel pit is unlined. Heavy metals such as lead could potentially leach into groundwater.

01 () N. Damage to Offsite Property 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description
None reported.

01 () O. Contamination of Sewers, Storm Drains, WWTPs 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description
None reported.

01 () P. Illegal/Unauthorized Dumping 02 () Observed (Date:) () Potential () Alleged

04 Narrative Description
None reported.

05 Description of Any Other Known, Potential, or Alleged Hazards
None known.

III. TOTAL POPULATION POTENTIALLY AFFECTED: >10,000

IV. COMMENTS

Although the foundry wastes are dumped in an unlined gravel pit, depth to the sole source aquifer is 75ft or more and therefore groundwater contamination potential is low.

V. SOURCES OF INFORMATION (cite specific references: state files, reports, etc.)

WDOE Files; WDOE Well Logs; Water Supply Bulletin #27; Spokane City Population Report, 1981; USGS 7.5' Topo - Greenacres 1973; Pers. Comm. D. Sanders WDSHS